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**ABSTRACT** 

The High performance cooling system s for cooling a heat source is disclosed. The

cooling systems are air cooling systems, liquid cooling system, or space radiation

cooling system. The air cooling system includes at least one high performance cold

plate or cold plate, at least one plenum, at least one liquid pump, and at least one

liquid to air heat exchanger. The liquid cooling system includes at least one high

performance cold plate or cold plate, at least one plenum, at least one liquid pump,

and at least one liquid to liquid heat exchanger. The space radiation cooling system

includes at least at least one high performance cold plate, or cold plate, at least one

plenum, at least one liquid pump, and at least one space radiator. Several different

coolant fluids are available and can be used as a primary system coolant depending

on the application.